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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/659,303	09/11/2003	Nobumasa Suzuki	P24195 3578		
7055 GREENBLUM	7590 11/29/2007 BLUM & BERNSTEIN, P.L.C. EXAMINER				
1950 ROLANI	O CLARKE PLACE		O'CONNOI	O'CONNOR, CARY E	
RESTON, VA 20191			ART UNIT	PAPER NUMBER	
			3732		
			NOTIFICATION DATE	DEL MEDIT MODE	
			NOTIFICATION DATE	DELIVERY MODE	
	•		11/29/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

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	Application No.	tion No. Applicant(s)				
,	10/659,303	SUZUKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cary E. O'Connor	3732				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
 1) ⊠ Responsive to communication(s) filed on <u>07 September 2007</u>. 2a) ☐ This action is FINAL. 2b) ⊠ This action is non-final. 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i>, 1935 C.D. 11, 453 O.G. 213. 						
Disposition of Claims						
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-6 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transfer of the correction of the original transfer of the correction o	epted or b) objected to by the drawing(s) be held in abeyance. Se on is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Pate				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ojima et al (5,147,361) in view of Scharf (6,682,563) and Gaines, Jr. (2002/0068940). Ojima shows, in Figure 4, a vertebra body plate 40 comprising a main body portion a plurality of screw insertion holes 44, 45 that are the only holes in the body portion. The screw holes are the same shape and size and spikes 13 extend from the body portion. Ojima does not disclose that the spikes are located closer to the outer edge of the plate than the screw holes. Gaines, Jr. shows a vertebra body plate having screw holes 38, 40 located on a diagonal line connecting two opposite corners. Spikes 42 are located at the outer edge of the plate. It would have been obvious to one of ordinary skill in the art at the time the invention was made to locate the spikes of Ojima at the edge of the plate, as taught by Gaines, Jr., in order to ensure that the entire plate is in contact with the vertebral body. Also, Ojima does not disclose that the body portion has a rhombic shape and that the screw holes are provided on at least one of the diagonal lines that connect opposite corners of the body portion. Scharf shows a rhombic vertebra body plate 10 comprising a plurality of screw holes 31, 32 located on the diagonal lines connecting opposite corners of the body portion. Scharf states that the rhombic shape is desirable so that "multiple devices can be utilized on a single spinal column...disposed in relatively close proximity without having the

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plates members interfere and without reducing the efficacy of the mounting mechanism."

(column 2, lines 41-45). It would have been obvious to form the body plate of Ojima in the shape of a rhombus and locate the holes on the diagonal lines, as taught by Scharf, so that a plurality of plates may be used in close proximity without reducing efficacy of the system. As to claims 2 and 3, Ojima, as modified by Scharf, discloses the claimed invention except for the spikes having a V-shaped cross section. It would have been an obvious matter of design choice to one skilled in the art at the time the invention was made to construct the spike with a V-shaped cross section, since applicant has not disclosed that such solve any stated problem or is anything more than one of numerous shapes or configurations a person ordinary skill in the art would find obvious for the purpose of providing a bone gripping means. In re Dailey and Eilers, 149 USPQ 47 (1966). As to claim 5, given the similarity in the shapes of Scharf's plate and applicant's plate, it is held that the plate of Ojima as modified by Scharf is formed to have a curved shaped corresponding to a peripheral surface of a vertebral body.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cary E. O'Connor whose telephone number is 571-272-4715. The examiner can normally be reached on M-Th 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris Rodriguez can be reached on 571-2724964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Cary E. O'Connor/ Primary Examiner Art Unit 3732 Page 4

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